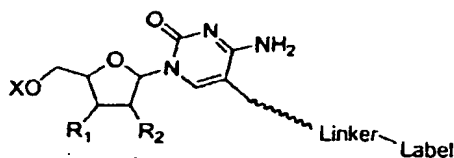
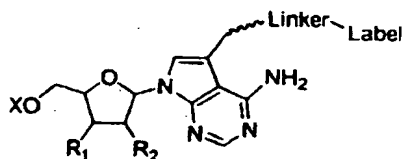


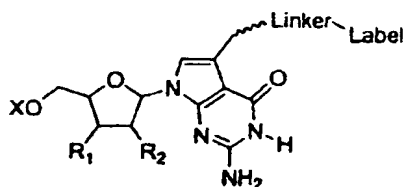
Uridine C5-linker



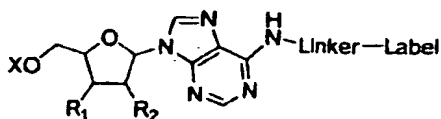
Cytidine C5-linker



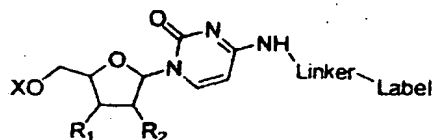
N7 Deazaadenosine C7-linker



N7 Deazaguanosine C7-linker



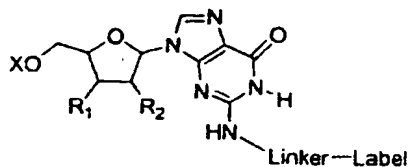
Adenosine N6-linker



Cytidine N4-linker

where R_1 and R_2 , which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH. Suitable groups for R_1 and R_2 are described in Figure 3

X = H, phosphate, diphosphate or triphosphate



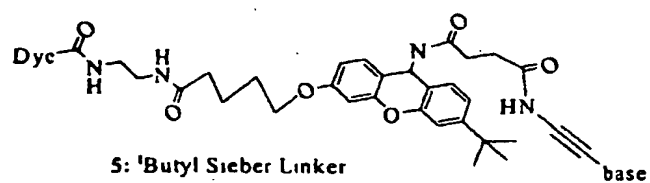
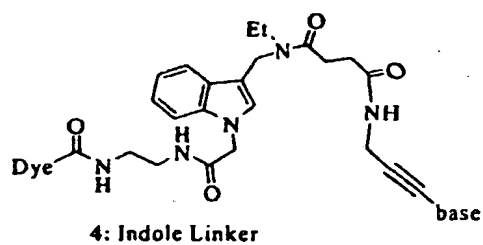
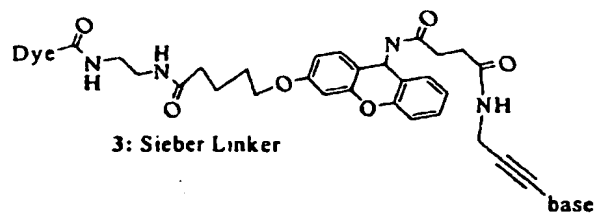
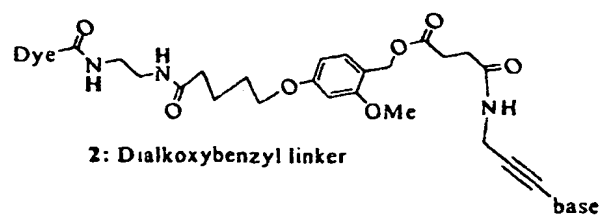
Guanosine N2-linker

Fig. 1

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Acid Labile Linkers



Disulfide Linker

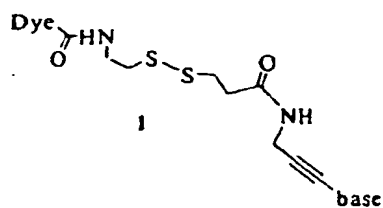
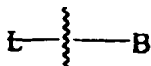
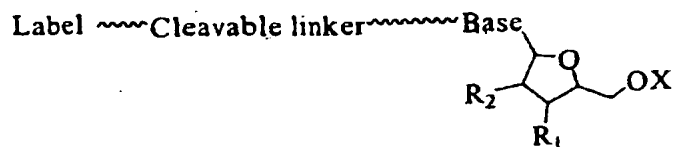


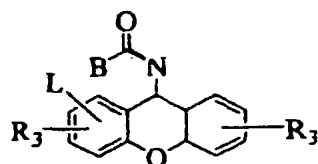
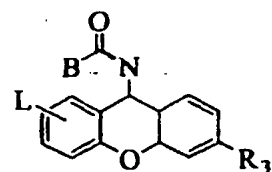
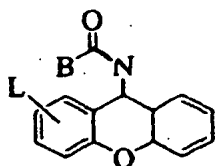
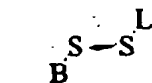
Fig. 2

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Cleavable linkers may include:

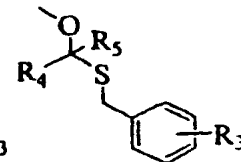
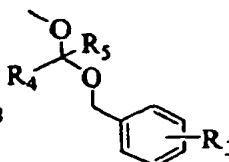
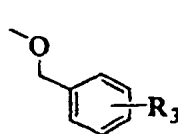
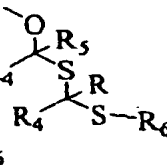
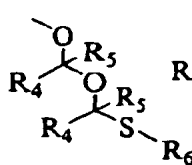
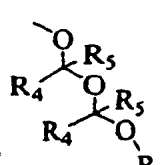
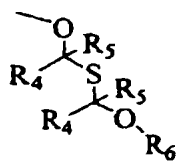
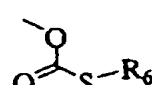
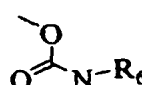
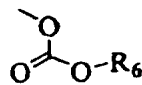
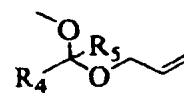
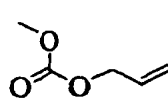
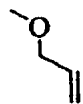
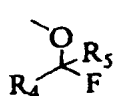
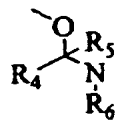
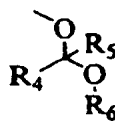
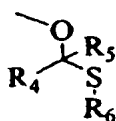


R₃ represents one or more substituents independently selected from alkyl, alkoxy, amino or halogen

Alternatively, cleavable linkers may be constructed from any labile functionality used on the 3'-block

where R₁ and R₂, which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH, including a carbonyl

R₁ and R₂ groups may include



where R₄ is H or alkyl, R₅ is H or alkyl and R₆ is alkyl, cycloalkyl, alkenyl, cycloalkenyl or benzyl

and X is H, phosphate, diphosphate or triphosphate

Fig. 3

Protected hemiacetals:

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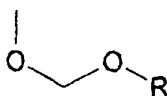
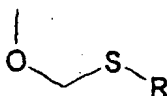
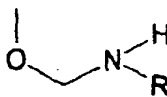
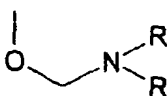
**Protected hemithioacetals:****Protected hemiaminals:**

Fig. 4

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2 cycles of Fully Functionals

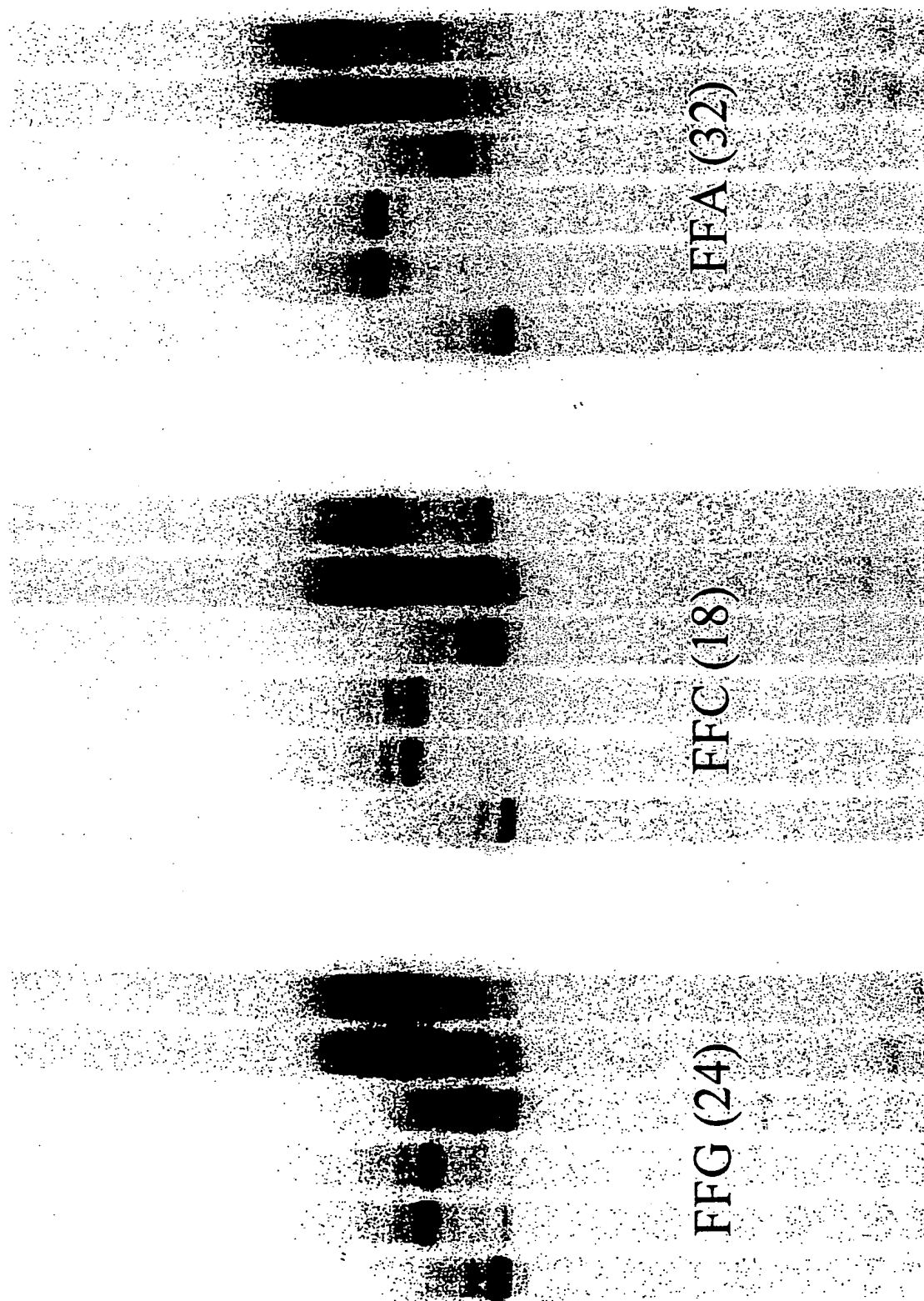


Fig. 5

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6 cycles of T (compound 6)

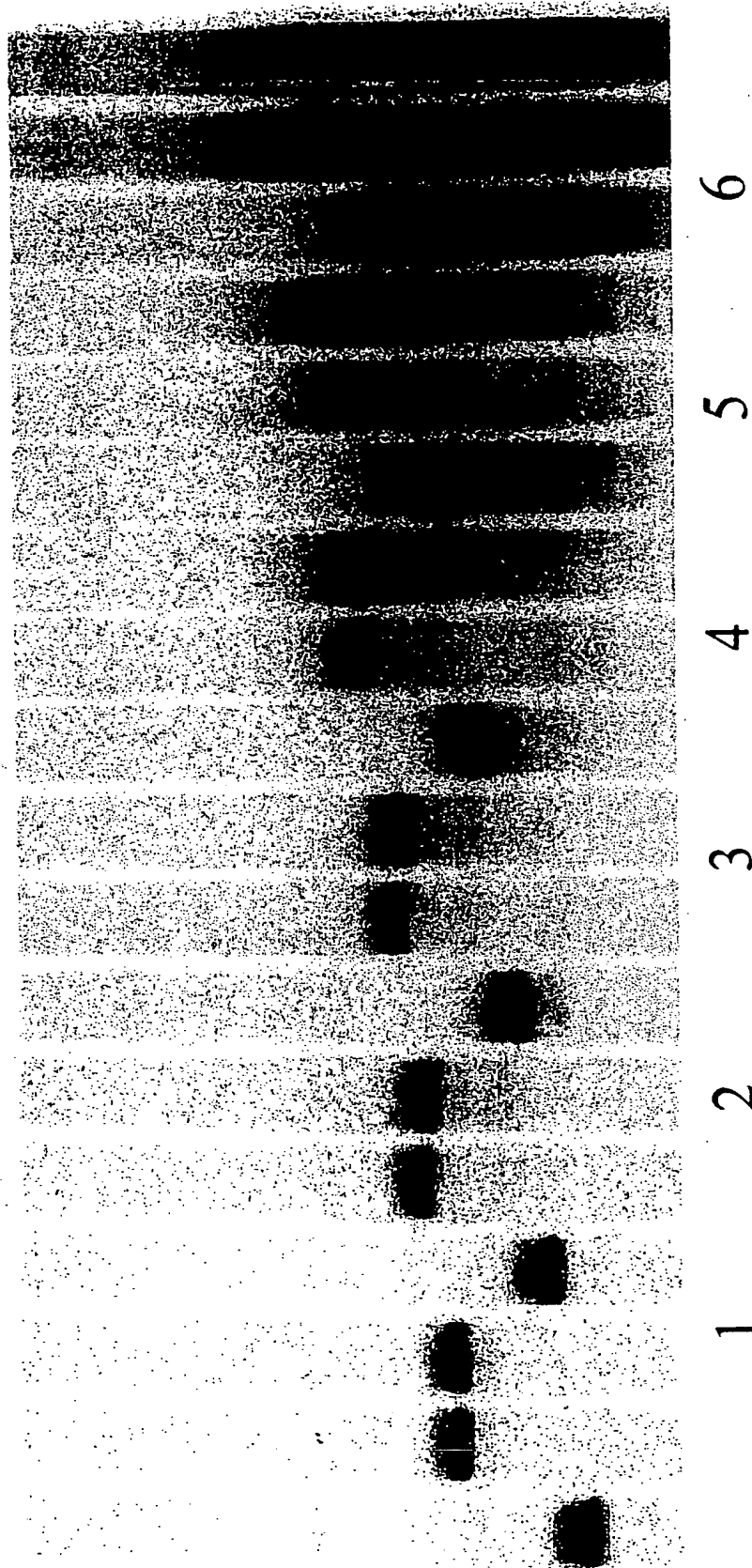


Fig. 6

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Chase 10 0

Fig. 7